	Application No.	Applicant(s)
Notice of Allowability E	00/046 547	LEE, TAE WON
	09/916,517 Examiner	Art Unit
	Trans II Tran	2622
	Trang U. Tran	2622
The MAILING DATE of this communication apperature of the Communication apperature of the Communication apperature of the Communication apperature of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	is application. If not included cation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment in res</u>	sponse filed June 09, 2006.	
2. The allowed claim(s) is/are 1-15 and 17-18 (renumbered 1	-8, 13-17 and 9-12, respectively	<u>Y)</u> .
3. \boxtimes Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (i	f).
a) 🛛 All b) 🗌 Some* c) 🗌 None of the:		
Certified copies of the priority documents have		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Review (F	PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Inform	nal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Sumr	,, , , , ,
_	Paper No./Mai	il Date <u>6/25/2006</u> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	/8), 7. ⊠ Examiner's Am	endment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Sta	tement of Reasons for Allowance
-	9.	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Bilodeau on June 21, 2006.

The application has been amended as follows:

In claim 1, line 16, the phrase "tracking a power" has been changed to —tracking the power--, and line 18, the phrase "tracking a power" has been changed to —tracking the power--.

In claim 3, line 8, the phrase "a wanted form" has been changed to —the wanted form--.

In claim 5, line 17, the phrase "tracking a power" has been changed to —tracking the power--, and line 19, the phrase "tracking a power" has been changed to —tracking the power--.

In claim 9, line 40, the phrase "detecting a power" has been changed to — tracking the power--, and line 43, the phrase "detecting a power" has been changed to – -tracking the power--.

These changes will place this application in condition for allowance.

2. The following is an examiner's statement of reasons for allowance:

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The independent claims 1 and 5 identifies the uniquely distinct features: "wherein the control part comprises: a signal power tracker tracking a power of the tuned channel signal using an output signal of a signal power detector; a ghost power tracker tracking a power of the ghost signal using an output signal of a ghost power detector, a signal vs. noise ratio (SNR) tracker tracking the signal vs. noise ratio using an output of a signal vs. noise ratio calculator; a tracking processor tracking states of the tuned channel signal using output signals of the trackers in a presently-selected antenna pattern and then changing the antenna pattern in order stored-in the memory if the tracked states fail to maintain effective value sizes, a scan processor attaining an effective signal power and antenna pattern by varying the directionality of the antenna using an output signal of the tracking processor and then storing the power and pattern values in the memory, and a sort processor aligning the stored antenna pattern values in order of the signal power values". All the references of record, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

The independent claim 9 identifies the distinct features: "wherein the VSB receive chip comprises: an automatic gain control part controlling a gain of an output signal of the intermediate frequency automatic Rain control part; a timing and carrier restoration part restoring a timing and carrier loss on an output signal of the automatic gain control part; an equalizer equalizing an output signal of the timing and carrier restoration part, a phase tracker tracking a phase of an output signal of the equalizer, and a forward error corrector correcting a forward error on an output signal of the phase tracker and outputting the VSB signal, and wherein the detection part comprises: a signal power

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detector detecting a power of the tuned channel signal using an automatic gain control signal from the automatic gain control part of the VSB receive chip; a ghost power detector detecting a power of a ghost signal using an output signal from the equalizer or an output signal of the timing and carrier restoration part of the VSB receive chip; and a signal vs. noise ratio (SNR) calculator calculating a ratio between a signal and a noise using an output signal of the phase tracker of the VSB receive chip". All the references of record, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 25, 2006

Trang U. Tran Examiner Art Unit 2622